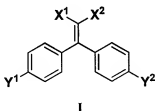


AMENDMENTS TO THE CLAIMS

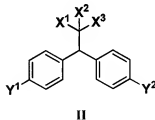
This listing of claims will replace all prior versions and listings of claims in the Application. No new matter has been introduced by way of the claim amendments. Current additions to the claims are noted with underlined text. Current deletions from the claims are indicated by text ~~strike through~~ or [[double bracketing]]. The status of each claim is indicated in parenthetical expression following the claim number.

WHAT IS CLAIMED IS:

1. (Currently Amended) A monomer having a form selected from the group consisting of:



and



wherein  $X^1$ ,  $X^2$ , and  $X^3$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof; ~~and~~

wherein at least one of  $X^1$  and  $X^2$  is not H; and

wherein at least one not-all of  $X^1$ ,  $X^2$ , and  $X^3$  is notare H; and

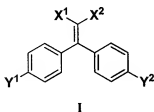
wherein  $Y^1$  ~~comprises~~is a polymerizable unit;

wherein the polymerizable unit comprises a functional moiety selected from the group consisting of an epoxide, an alkene, an alkyne and combinations thereof; and

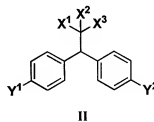
wherein  $Y^2$  is selected from the group consisting of OH; H; Cl; Br; I; F; OR,  
wherein R is selected from the group consisting of alkyl, aryl, and combinations thereof;  
and R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof.



2. (Currently Amended) The monomer of claim 1, wherein the polymerizable unit comprises a functional moiety selected from the group consisting of an epoxide, an alkene, an alkyne, and combinations thereof.
3. (Currently Amended) The monomer of claim 1, having a form selected from the group consisting of:



and



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wherein X<sup>1</sup>, X<sup>2</sup>, and X<sup>3</sup> are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof;

wherein at least one of X<sup>1</sup> and X<sup>2</sup> is not H; and

wherein at least one of X<sup>1</sup>, X<sup>2</sup>, and X<sup>3</sup> is not H;

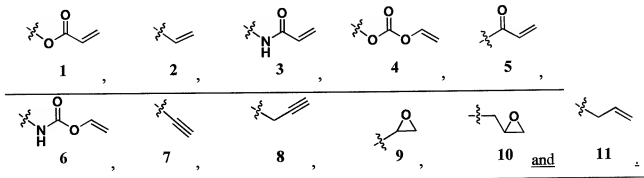
wherein Y<sup>1</sup> comprises a the polymerizable unit comprising at least two polymerizingable functional moieties; and

wherein Y<sup>2</sup> is selected from the group consisting of OH; H; Cl; Br; I; F; OR,  
wherein R is selected from the group consisting of alkyl, aryl, alkenyl and combinations thereof; and R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof.

4. (Currently Amended) The monomer of claim ~~1~~ 31, wherein the polymerizable unit comprises a bis-alkene.
5. (Original) The monomer of claim 1, wherein the polymerizable unit is attached to the monomer via a spacer group.



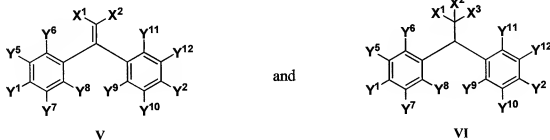
6. (Currently Amended) The monomer of claim 1, wherein the polymerizable unit is selected from the group consisting of: ~~polymerizable moieties 1-11.~~



7. (Currently Amended) The monomer of claim 1, wherein  $Y^2$  is selected from the group consisting of  $OH$ ,  $H$ ,  $Cl$ ,  $Br$ ,  $I$ , and  $F$ , ~~OR, wherein R is selected from the group consisting of alkyl, aryl, alkenyl, and combinations thereof; R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; and combinations thereof.~~

8 – 22 (Cancelled)

23. (Currently Amended) A monomer having a form selected from the group consisting of:



wherein,

a)  $X^1$ - $X^3$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof; ~~and~~

wherein at least one of  $X^1$  and  $X^2$  is not H; and

wherein at least one not all of  $X^1$ ,  $X^2$ , and  $X^3$  is not H;



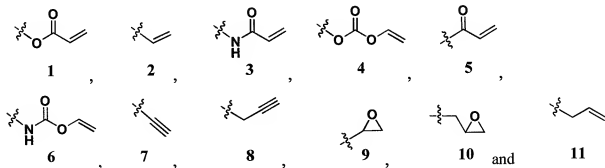
- b) at least one of  $Y^2$  and  $Y^9-Y^{12}$  is selected from the group consisting of (i) OH; (ii) H; (iii) Cl; (iv) Br; (v) I; (vi) F; (vii) OR, wherein R is selected from the group consisting of alkyl, aryl, ~~alkenyl~~, and combinations thereof; (viii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; and (ix) combinations thereof;
- c) the remainder of  $Y^2$  and  $Y^9-Y^{12}$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof;
- d) at least one of  $Y^1$  and  $Y^5-Y^8$  ~~comprises~~ is a polymerizable unit; ~~and~~  
wherein the polymerizable unit comprises a functional moiety selected from the group consisting of an epoxide, an alkene, an alkyne and combinations thereof, and
- e) the remainder of  $Y^1$  and  $Y^5-Y^8$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof.
24. (Currently Amended) The ~~monomer~~polymer of claim 23, wherein exactly one of  $Y^1$  and  $Y^5-Y^8$  ~~comprises~~ is a polymerizable unit.
25. (Currently Amended) The ~~monomer~~polymer of claim 24, wherein exactly one of  $Y^2$  and  $Y^9-Y^{12}$  is selected from the group consisting of (i) OH; (ii) OR, wherein R is selected from the group consisting of alkyl, aryl, ~~alkenyl~~, and combinations thereof; ~~and~~ (iii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; ~~(ix) combinations of at least two of OH, OR, and R; and (x) combinations with one or more of OH, OR, and R with one or more of H, Cl, Br, F, and I.~~
26. (Currently Amended) The ~~monomer~~polymer of claim 24, wherein  $Y^2$  and  $Y^9-Y^{12}$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof.
27. (Currently Amended) The ~~monomer~~polymer of claim ~~23~~22, wherein,  
(a)  $X^1-X^3-Y^5-Y^{12}$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof; ~~and wherein not all of  $X^1$ ,  $X^2$ , and  $X^3$  are H;~~  
(b)  $Y^2$  is selected from the group consisting of (i) OH; (ii) H; (iii) Cl; (iv) Br; (v)



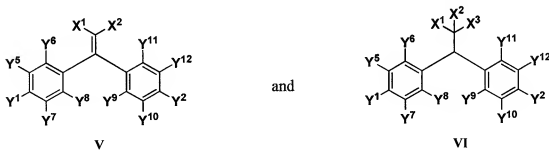
I; (vi) F; (vii) OR, wherein R is selected from the group consisting of alkyl, aryl, ~~alkenyl~~, and combinations thereof; and (viii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; and ~~(ix) combinations thereof~~; and (c) Y<sup>1</sup> ~~comprises~~ a polymerizable unit.

28 – 32 (Cancelled)

33. (New) The monomer of claim 24, wherein the polymerizable unit is selected from the group consisting of:



34. (New) The monomer of claim 24, wherein at least two of Y<sup>2</sup> and Y<sup>9</sup>-Y<sup>12</sup> are selected from the group consisting of (i) OH; (ii) OR, wherein R is selected from the group consisting of alkyl, aryl, and combinations thereof; and (iii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof.
35. (New) A monomer having a form selected from the group consisting of:





wherein,

a)  $X^1$ - $X^3$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof;

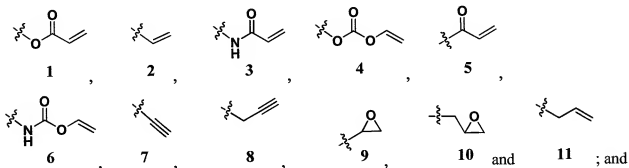
wherein at least one of  $X^1$  and  $X^2$  is not H; and

wherein at least one of  $X^1$ ,  $X^2$ , and  $X^3$  is not H;

b) at least one of  $Y^2$  and  $Y^9$ - $Y^{12}$  is selected from the group consisting of (i) OH; (ii) H; (iii) Cl; (iv) Br; (v) I; (vi) F; (vii) OR, wherein R is selected from the group consisting of alkyl, aryl, alkenyl, and combinations thereof; (viii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; and (ix) combinations thereof;

c) the remainder of  $Y^2$  and  $Y^9$ - $Y^{12}$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof;

d) at least one of  $Y^1$  and  $Y^5$ - $Y^8$  is a polymerizable unit selected from the group consisting of:



e) the remainder of  $Y^1$  and  $Y^5$ - $Y^8$  are each selected from the group consisting of H, Cl, Br, F, I, and combinations thereof.

36. (New) The monomer of claim 35, wherein at least one of  $Y^2$  and  $Y^9$ - $Y^{12}$  is selected from the group consisting of (i) OR, wherein R is selected from the group consisting of alkyl, aryl, alkenyl, and combinations thereof; and (ii) R, wherein R is selected from the group consisting of alkyl, alkenyl, alkynyl, and combinations thereof; and (iii) combinations thereof.